

```

Dim i As integer
Dim oSheets
Dim oSheet
Dim oCell

TheSum = 0
oSheets = ThisComponent.getSheets()
For i = 0 To oSheets.getCount() - 1
    oSheet = oSheets.getByIndex(i)
    oCell = oSheet.getCellByPosition(0, 1) ' GetCell A2
    TheSum = TheSum + oCell.getValue()
Next
SumCellsAllSheets = TheSum
End Function

```

Tip

A cell object supports the methods `getValue()`, `getString()`, and `getFormula()` to get the numerical value, the string value, or the formula used in a cell. Use the corresponding set functions to set appropriate values.

Use `oSheet.getCellRangeByName("A2")` to return a range of cells by name. If a single cell is referenced, then a cell object is returned. If a cell range is given, then an entire range of cells is returned (see Listing 8). Notice that a cell range returns data as an array of arrays, which is more cumbersome than treating it as an array with two dimensions as is done in Listing 5.

Listing 8. SumCellsAllSheets adds the values in cells A2:C5 of every sheet

```

Function SumCellsAllSheets()
    Dim TheSum As Double
    Dim iRow As Integer, iCol As Integer, i As Integer
    Dim oSheets, oSheet, oCells
    Dim oRow(), oRows()

    TheSum = 0
    oSheets = ThisComponent.getSheets()
    For i = 0 To oSheets.getCount() - 1
        oSheet = oSheets.getByIndex(i)
        oCells = oSheet.getCellRangeByName("A2:C5")

        REM The getDataArray() method returns strings and numbers
        REM but is not used in this function.

        REM The getData() method returns only numbers and is applicable
        REM to this function.

        oRows() = oCells.getData()
        For iRow = LBound(oRows()) To UBound(oRows())
            oRow() = oRows(iRow)
            For iCol = LBound(oRow()) To UBound(oRow())
                TheSum = TheSum + oRow(iCol)
            Next
        Next
    Next
    SumCellsAllSheets = TheSum
End Function

```